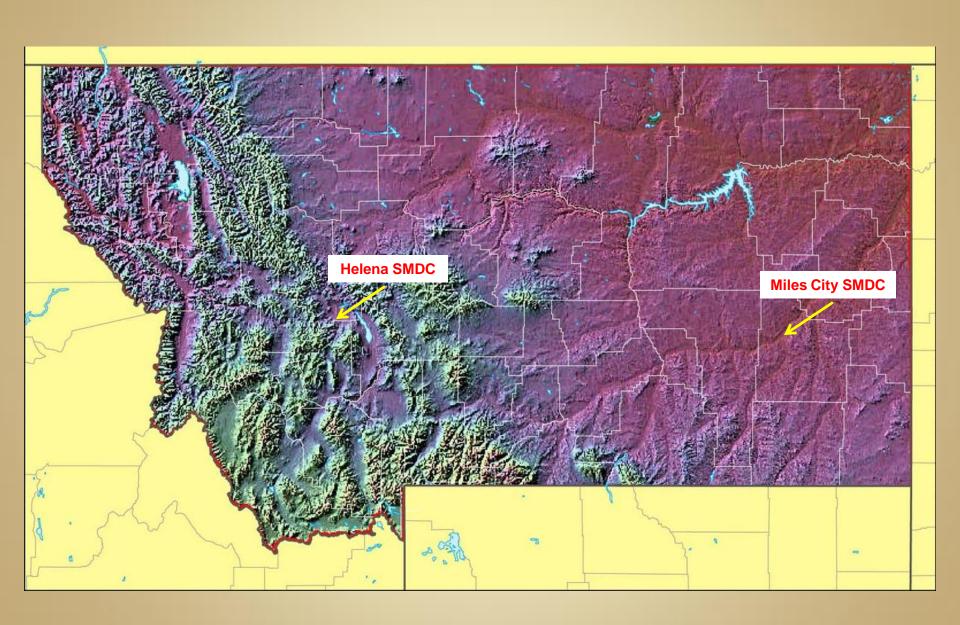
State of Montana Data Centers (SMDC)

Helena, MT Facility





Helena SMDC



Helena SMDC 2008 Conceptual Rendering



Helena SMDC Actual – November 25, 2009





Construction Update

- Helena SMDC Building (incl. MEP) 85% complete.
- Start-up, testing, and commissioning of building systems to begin week of December 14, 2009.
- Substantial Completion date currently set as February 4, 2010.
- IT Equipment "Migration" phase will occur following Substantial Completion.



Design Team

- A&E Architects Lead Consultant/Project Management
- Total Site Solutions IT Center Consultant/Mission Critical Facilities
- Gordon-Prill-Drapes Mechanical/Electrical Engineer
- Whitten & Borges Structural Engineer
- Peccia & Associates Civil/Survey Engineer
- Tetra-Tech Geotechnical Investigation
- Foley Group Landscape Architect



Helena SMDC Design

- Based upon Data Center Requirements Analysis by TSS
 - Needs Assessment
 - Growth Model and Load Analysis
- Target Tier III design industry best practices
- Robust / Scalable building and systems
- High level of energy efficiency
 - KyotoCooling® rotary heat exchanger "free cooling"
 - Heat Recovery systems internal and external
- High level of Physical & Environmental Security
- 15,024 sq ft building
- 6,200 sq ft raised floor computer room constructed this phase
 - 13 rows of racks available
 - ITSD initially will occupy 2-3 rows
- I,000 sq ft OPS Center
- "Hotel" work stations for non-permanent



Physical & Environmental Security

- 24x7 Manned Operation by the Enterprise Operation Center (EOC)
- DOD Security Standards for Critical Infrastructure
- Controlled, limited physical access perimeter/building/data room
- Configuration area for new equipment
- Electronic/video monitoring interior and exterior
- 2006 IBC Occupancy Category IV "Essential Facility" design standards (designed to be functional after 500yr-frequency seismic event)
- No roof penetrations above technical spaces
- Dual fire suppression system in data room clean agent/pre-action
- Utility <u>and</u> Generator Power Sources
- Redundant Uninterruptable Power Supply (UPS)
- Redundant connections to Capitol Campus network
- "Hitching Post" for Mobile Work Station

Helena SMDC – Long Section

